

PTO/SB/08A (08-03)

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 1

of 5

Application Number	09/820,519
Filing Date	03/29/2001
First Named Inventor	Eric J. Horvitz
Art Unit	2124
Examiner Name	William H. Wood
Attorney Docket Number	MS91212.01/MSFTP291US

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JW		US- 6,513,046	01-28-2003	Abbott, III et al.	
JW		US- 6,747,675	06-08-2004	Abbott et al.	
JW		US- 6,801,223	10-05-2004	Abbott et al.	
JW		US- 6,842,877	01-11-2005	Robarts et al.	
JW		US- 6,466,232	10-15-2002	Newell et al.	
JW		US- 6,549,915	04-15-2003	Abbott, III et al.	
JW		US- 6,791,580	09-14-2004	Abbott et al.	
JW		US- 6,812,937	11-02-2004	Abbott et al.	
JW		US- 2001/0040591	11-15-2001	Abbott et al.	
JW		US- 2001/0043232	11-22-2001	Abbott et al.	
JW		US- 2002/0044152	04-18-2002	Abbott, III et al.	
JW		US- 2002/0052963	05-02-2002	Abbott et al.	
JW		US- 2002/0054174	05-09-2002	Abbott et al.	
JW		US- 2002/0080155	06-27-2002	Abbott et al.	
JW		US- 2002/0083025	06-27-2002	Robarts et al.	
JW		US- 2002/0087525	07-04-2002	Abbott et al.	
JW		US- 2003/0046401	03-06-2003	Abbott et al.	
JW		US- 2005/0034078	02-10-2005	Abbott et al.	
JW		US- 2001/0040590	11-15-2001	Abbott et al.	

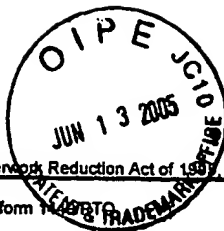
FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	9/18/05
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	09/820,519
Filing Date	03/29/2001
First Named Inventor	Eric J. Horvitz
Art Unit	2124
Examiner Name	William H. Wood
Attorney Docket Number	MS91212.01/MSFTP291US

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U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
am		US- 2001/0043231	11-22-2001	Abbott et al.	
am		US- 2002/0032689	03-14-2002	Abbott, III et al.	
am		US- 2002/0052930	05-02-2002	Abbott et al.	
am		US- 2002/0054130	05-09-2002	Abbott, III et al.	
am		US- 2002/0078204	06-20-2002	Newell et al.	
am		US- 2002/0080156	06-27-2002	Abbott et al.	
am		US- 2002/0083158	06-27-2002	Abbott et al.	
am		US- 2002/0099817	07-25-2002	Abbott et al.	
am		US- 2003/0154476	08-14-2003	Abbott, III et al.	
am		US- 5,493,692	02-20-1996	Theimer et al.	
am		US- 5,555,376	09-10-1996	Theimer et al.	
am		US- 5,611,050	03-11-1997	Theimer et al.	
am		US- 5,544,321	08-06-1996	Theimer et al.	
am		US- 5,603,054	02-11-1997	Theimer et al.	
am		US- 5,812,865	09-22-1998	Theimer et al.	
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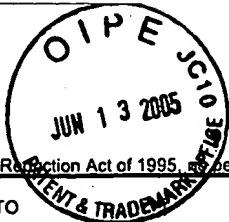
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9/15/05

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Application Number	09/820,519
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First Named Inventor	Eric J. Horvitz
Art Unit	2124
Examiner Name	William H. Wood
Attorney Docket Number	MS91212.01/MSFTP291US

Sheet 3 of 5

NON PATENT LITERATURE DOCUMENTS

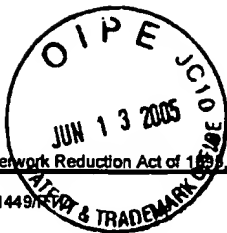
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
QSM		ANDY HARTER, et al., A Distributed Location System for the Active Office, IEEE Network, 1994, pp. 62-70.	
QSM		GUANLING CHEN, et al., A Survey of Context-Aware Mobile Computing Research, Dartmouth Computer Science Technical Report, 2000, 16 pages.	
QSM		WILLIAM NOAH SCHILT, A System Architecture for Context-Aware Mobile Computing, Columbia University, 1995, 153 pages.	
QSM		MIKE SPREITZER, et al., Providing Location Information in a Ubiquitous Computing Environment, SIGOPS '93, 1993, pp.270-283.	
QSM		MARVIN THEIMER, et al., Operating System Issues for PDAs, In Fourth Workshop on Workstation Operating Systems, 1993, 7 pages.	
QSM		ROY WANT, Active Badges and Personal Interactive Computing Objects, IEEE Transactions on Consumer Electronics, 1992, 11 pages, Vol. 38 - No. 1.	
QSM		BILL N. SCHILIT, et al., The ParcTab Mobile Computing System, IEEE WWOS-IV, 1993, 4 pages.	
QSM		BILL SCHILIT, et al., Context-Aware Computing Applications, In Proceedings of the Workshop on Mobile Computing Systems and Applications, December 1994. pp. 85-90.	
QSM		BILL N. SCHILIT, et al., Customizing Mobile Applications, Proceedings USENIX Symposium on Mobile and Location Independent Computing, August 1993, 9 pages.	
QSM		MIKE SPREITZER, et al., Architectural Considerations for Scalable, Secure, Mobile Computing with Location Information, In The 14th International Conference on Distributed Computing Systems, June 1994. pages 29-38.	

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Sheet	4	of	5	Application Number	09/820,519
				Filing Date	03/29/2001
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				Art Unit	2124
				Examiner Name	William H. Wood
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NON PATENT LITERATURE DOCUMENTS

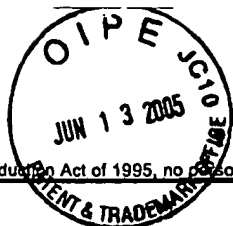
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
2/20		MIKE SPREITZER et al., Scalable, Secure, Mobile Computing with Location Information, Communications of the ACM, July 1993, 1 page, Vol. 36 - No. 7.	
2/20		ROY WANT, et al., The Active Badge Location System, ACM Transactions on Information Systems, January 1992, pp. 91-102, Vol. 10 - No. 1.	
2/20		MARK WEISER, Some Computer Science Issues in Ubiquitous Computing, Communications of the ACM, July 1993, pp. 75-84, Vol. 36 - No. 7.	
2/20		M. BILLINGHURST, et al., An Evaluation of Wearable Information Spaces, Proceedings of the Virtual Reality Annual International Symposium, 1998, 8 pages.	
2/20		BRADLEY J. RHODES, Remembrance Agent: A continuously running automated information retrieval system, The Proceedings of The First International Conference on The Practical Application Of Intelligent Agents and Multi Agent Technology, 1996, pp. 487-495.	
2/20		ERIC HORVITZ, et al., In Pursuit of Effective Handsfree Decision Support: Coupling Bayesian Inference, Speech Understanding, and User Models, 1995, 8 pages.	
2/20		BRADLEY J. RHODES, The Wearable Remembrance Agent: A System for Augmented Theory, The Proceedings of The First International Symposium on Wearable Computers, October 1997, pp. 123-128.	
2/20		ERIC HORVITZ, et al., Attention-Sensitive Alerting in Computing Systems, Microsoft Research, August 1999.	
2/20		BILL N. SCHILIT, et al., Disseminating Active Map Information to Mobile Hosts, IEEE Network, 1994, pages 22-32, Vol. 8 - No. 5.	
2/20		MARK BILLINGHURST, et al., Wearable Devices: New Ways to Manage Information, IEEE Computer Society, January 1999, pp. 57-64.	

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Sheet 5 of 5

NON PATENT LITERATURE DOCUMENTS

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CHN		THAD EUGENE STARNER, Wearable Computing and Contextual Awareness, Massachusetts Institute of Technology, June 1999, 248 pages.	
CHN		BRADLEY J. RHODES, The Wearable Remembrance Agent: A System for Augmented Memory, Personal Technologies Journal Special Issue on Wearable Computing, 1997, 12 pages.	
CHN		Workshop on Wearable Computing Systems, August 19-21, 1996.	
CHN		MARK BILLINGHURST, Research Directions in Wearable Computing, University of Washington, May, 1998, 48 pages.	
CHN		MARK WEISER, The Computer for the 21st Century, Scientific American, September 1991, 8 pages.	
		MICHAEL GAREY, et al., Computer and intractability: A guide to the theory of NP-Completeness, W.H. Freeman and Company, New York, 1979, 340 pages.	
CHN		SAHNI, Approximate algorithms for the 0/1 knapsack problem, J. Assoc. Computing Machinery, 1975, pp. 115-124.	

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